

The following listing of claims will replace all prior versions, and listing of claims, in this application.

**Listing of the claims:**

Claims 1-45 (Cancelled).

46. (Previously Presented) A method for obtaining lineage-committed dendritic cells exhibiting enhanced biological function comprising culturing lineage committed dendritic cells *ex vivo* under physiologically acceptable liquid culture conditions, said conditions including replacement of the liquid culture medium at a rate of at least 25% daily replacement for more than one day and for a time sufficient to obtain lineage committed dendritic cells with enhanced biological function as compared with the biological function of the dendritic cells prior to the culturing.

47. (Currently Amended) The method of claim 46, wherein the biological function enhanced in the dendritic cells comprises at least one member selected from the group consisting of secretion of one or more substances, cell-cell communication, receptor expression on the cell surface, antigen presentation, antigen processing, and ability to home in *in vivo* to sites for function, and the ability to stimulate T-cells.

48. (Previously Presented) The method of claim 46, wherein the liquid culture medium is replaced substantially continuously.

49. (Previously Presented) The method of claim 46, wherein the liquid culture medium is replaced periodically.

Claim 50 (Cancelled).

51. (Previously Presented) The method of claim 46, wherein the culture medium is replaced at a rate of at least 50% daily replacement for more than one day.

52. (Previously Presented) The method of claim 46, wherein the culture medium is replaced at a rate of from 25 to 100% daily replacement for about  $1 \times 10^4$  to about  $1 \times 10^7$  cells/ml in culture for more than one day.

53. (Previously Presented) The method of claim 46, wherein the lineage committed dendritic cells are antigen-primed dendritic cells.

54. (Previously Presented) The method of claim 46, wherein the lineage committed dendritic cells are myeloid-derived dendritic cells.

55. (Previously Presented) The method of claim 46, wherein the lineage committed dendritic cells are lymphoid-derived dendritic cells.

56. (Previously Presented) A method for obtaining lineage-committed human dendritic cells exhibiting enhanced biological function comprising culturing lineage committed dendritic cells ex vivo under physiologically acceptable liquid culture conditions, said conditions including replacement of the liquid culture medium at a rate of at least 25% daily replacement

for more than one day and for a time sufficient to obtain lineage committed dendritic cells with enhanced biological function as compared with the biological function of the human dendritic cells prior to the culturing.

57. (Previously Presented) The method of claim 56, wherein the biological function enhanced in the human dendritic cells comprises at least one member selected from the group consisting of secretion of substances, cell-cell communication, receptor expression on the cell surface, antigen presentation, antigen processing, ability to home in in vivo to sites for function, and the ability to stimulate T-cells.

58. (Previously Presented) The method of claim 56, wherein the liquid culture medium is replaced substantially continuously.

59. (Previously Presented) The method of claim 56, wherein the liquid culture medium is replaced periodically.

Claim 60 (Cancelled).

61. (Previously Presented) The method of claim 56, wherein the culture medium is replaced at a rate of at least 50% daily replacement for more than one day.

62. (Previously Presented) The method of claim 56, wherein the culture medium is replaced at a rate of from 25 to 100% daily replacement for about  $1 \times 10^4$  to about  $1 \times 10^7$  cells/ml

in culture for more than one day.

63. (Previously Presented) The method of claim 56, wherein the lineage-committed dendritic cells are antigen primed dendritic cells.

64. (Previously Presented) The method of claim 56, wherein the lineage-committed dendritic cells are myeloid derived dendritic cells.

65. (Previously Presented) The method of claim 56, wherein the lineage-committed dendritic cells are lymphoid-derived dendritic cells.

Claims 66-87 (Cancelled).